

PATENT CLAIMS

1. A method for integration of a field device (1) in an installation control system, in which case the
5 installation control system has a communications network (3, 4, 5) and a control station (2), characterized in that
 - a) the field device (1) transmits a functional description (13) of its device functions (11) to the control station (2) in a standardized form,
 - b) functions (23, 23') associated with the field device (1) are installed on the control station (2), and
 - 15 c) communications links are configured between the device functions (11) and the functions of the control station (23, 23').
2. The method as claimed in claim 1, characterized
20 in that, before integration of a field device (1), the control station (2) contains information about a structure of the installation (24).
3. The method as claimed in claim 2, characterized in that, before integration of a field device (1), the
25 control station (2) contains information about an identity of the field device (1) and/or about an identity of primary units (6) which are associated with the field device (1).
4. The method as claimed in claim 1, characterized
30 in that at least one function of the control station (23, 23') is installed automatically on the basis of the nature of this function (23, 23').
5. The method as claimed in claim 1, characterized in that the functional descriptions (13) of the field
35 device (1) use a description language in accordance with IEC Standard 61850-6 or its draft.
6. The method as claimed in claim 1, characterized in that generic functions of the control station (2)

- 20 -

which can be associated with a field device (1) are stored in the control station (2) before the physical installation of the field device (1).

7. The method as claimed in claim 1, characterized
5 in that functions of the control station (2) which can be associated with a field device (1) are transmitted by the field device (1) to the control station (2) during the physical installation of the field device (1).

10 8. The method as claimed in claim 1, characterized in that generic functions of the control station (2) which can be associated with a field device (1) are transmitted to the control station (2) during physical installation of the field device (1) using an address,
15 in particular a URL (Uniform Resource Locator).

9. The method as claimed in claim 1, characterized in that the installation control system controls a high-voltage or medium-voltage switchgear assembly.

10. An installation control system which has a
20 control station (2) and a communications network (3, 4,
5) for communication with a field device (1), characterized in that the installation control system has

- 25 a) means for receiving a standardized functional description (13) of at least one device function (11) of the field device (1),
- 30 b) means for installation of functions of the control station (23, 23') which are associated with the at least one device function (11) of the field device (1), and
- 35 c) means for configuration of communications links between the at least one device function (11) of the field device (1) and the functions of the control station (23, 23').

- 21 -

11. The installation control system as claimed in claim 10, characterized in that the device functions (11) of the field device (1) are described in a description language in accordance with IEC Standard 5 61850-6 or its draft.
12. A field device (1) for integration in an installation control system, characterized in that the field device (1) has a functional description (13) of at least one device function (11) of the field device 10 (1), and the functional description (13) of the at least one device function (11) of the field device (1) can be transmitted via the installation control system.